```
<!--StartFragment-->RESULT 5
ABX62889
    ABX62889 standard; cDNA; 3622 BP.
ХX
AC
    ABX62889;
XX
DТ
    25-FEB-2003 (first entry)
XX
    Human activated T cell cDNA #5.
DE
XX
KW
     T cell; gene; ss; differential expression; T cell activation;
KW
     antiallergic; cytostatic; immunosuppressive; antimicrobial; gene therapy;
KW
     allergy; cancer; graft versus host disease; infection;
KW
     autoimmune disorder.
XX
os
    Homo sapiens.
XX
PN
    US2002137077-A1.
XX
PD
    26-SEP-2002.
XX
PF
     25-OCT-2001; 2001US-00002600.
XX
PR
     25-OCT-2000; 2000US-0243521P.
XX
PA
    (HOPK/) HOPKINS C M.
PA
     (PETE/) PETERSON D P.
PA
     (COCK/) COCKS B G.
PA
    (HAWK/) HAWKINS P R.
XX
PΙ
    Hopkins CM, Peterson DP, Cocks BG, Hawkins PR;
XX
DR
    WPI; 2003-102381/09.
XX
PT
    New combination comprising several cDNAs that are differentially
PT
     expressed in activated T cells, useful for diagnosing, treating, staging
PT
    or monitoring treatment for allergy, cancer, infectious and/or autoimmune
PΤ
    disorders.
XX
PS
    Claim 1; Page; 180pp; English.
XX
CC
    This invention relates to the sequences of several cDNAs that are
CC
    differentially expressed in activated T cells. The sequences of the
CC
    invention may have antiallergic, cytostatic, immunosuppressive and
     antimicrobial activity and may be used in gene therapy. The invention
CC
    also comprises a method for screening samples for differentially
CC
    expressed genes and a method for detecting these cDNAs by hybridisation.
CC
    The methods and compositions of the present invention are useful for
CC
    diagnosing, treating, staging or monitoring treatment for allergy,
CC
    cancer, chronic graft versus host disease, infectious and/or autoimmune
CC
    disorders. The present sequence represents a cDNA of the invention that
CC
    is differentially expressed in activated T cells
XX
     Sequence 3622 BP; 965 A; 838 C; 902 G; 916 T; 0 U; 1 Other;
                          92.6%; Score 3125.6; DB 8; Length 3622;
  Best Local Similarity 96.2%; Pred. No. 0;
  Matches 3292; Conservative
                               0; Mismatches 35; Indels
                                                                96; Gaps
           12 CTCCGGCCGCCGGTGCGGGTGCTCCGCTACCGGCTCCTCTCCGTTCTGTGCTCTCTT 71
Οv
```

Db	1	CTCTGCGGGCCGCGGGTGCCGGGTGCTCCGCTACCGGCT-CTCTCCGTTCTGTGCTCTCTT 59
Qу	72	CTGCTCTCGGCTCCCCACCCCCTCTCCCTTCCCTCTCCCCTTGCCTCCCCTCCTCT 131
Db	60	CTGCTCTCGGCTCCCCACCCCTCTCCCTTCCCTCTCCCCTTGCNTCCCCTCTCTT 119
Qy	132	CAGCGCCTGCATTATTTTCTGCCCGCAGGCTCGGCTTGCACTGCTGCTGCAGCCCGGGGA 191
Db	120	CAGCGCCTGCATTATTTTCTGCCCGCAGGCTCGGCTTGCACTGCTGCAGCCCGGGGA 179
Qy	192	GGTGGCTGGGTGGGGAGGAGACTGTGCAAGTTGTAGGGGAGGGGGTGCCCTCTTCT 251
Db	180	GGTGGCTGGGTGGGGAGGAGACTGTGCAAG-TGTAGGGGAGGGG
Qy	252	TCCCCGCTCCCTTCCCCGCCAACTCCTTCCCCTCCTTTCCCCCTTTCCCCTCCCCGCC 311
Db	239	TCCCCGCTCCCTTCCCCAGCCAAGTGGTTCCCCTCCTTCTCCCCCTTTCCCCTCCCAGCC 298
Qy	312	CCCACCTTCTTCCTCCTTTCGGAAGGACTGGTAACTTGTCGTGCGGAGCGAACGGCGGCG 371
Db	299	CCCACCTTCTTCCTCCTTTCGGAAGGGCTGGTAACTTGTTGTGCGGAGCGAA 350
Qy	372	GCGGCGGCGGCGCACCATCCAGGCGGGCACCATGGGCACGTCCGCGCTCTGGGCGC 431
Db	351	-CGGCGGCGGCGGCACCATCCAGGCGGCACCATGGGCACGTCCGCGCTCTGGGCGC 409
Qy	432	TCTGGCTGCTGCTGCTGGCGCCCCCGGGAGAGCGGCCCACCGGAACCGGGA 491
Db	410	TCTGGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGCGGCGCCACCGGAACCGGGA 469
Qy	492	GAAAAGCCAAATGTGAACCCTCCCAATTCCAGTGCACAAATGGTCGCTGTATTACGCTGT 551
Db	470	GAAAAGCCAAATGTGAACCCTCCCAATTCCAGTGCACAAATGGTCGCTGTATTACGCTGT 529
Qy	552	TGTGGAAATGTGATGGGGATGAAGACTGTGTTGACGGCAGTGATGAAAAGAACTGTGTAA 611
Db	530	${\tt TGTGGAAATGTGATGGGGATGAAGACTGTGTTGACGGCAGTGATGAAAAGAACTGTGTAA} {\tt 589}$
Qy	612	AGAAGACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTGTTCCCAGCCGAT 671
Db	590	AGAAGACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTGTTCCCAGCCGAT 649
Qy	672	GGAAGTGTGATGGAGATCCTGACTGCGAAGATGGTTCAGATGAAAGCCCAGAACAGTGCC 731
Db	650	GGAAGTGTGATGGAGATCCTGACTGCGAAGATGGTTCAGATGAAAGCCCAGAACAGTGCC 709
Qy	732	ATATGAGAACATGCCGCATACATGAAATCAGCTGTGGCGCCCATTCTACTCAGTGTATCC 791
Db	710	ATATGAGAACATGCCGCATACATGAAATCAGCTGTGGCGCCCATTCTACTCAGTGTATCC 769
Qy	792	CAGTGTCCTGGAGATGTGATGGTGAAAATGATTGTGACAGTGGAGAAAGATGAAGAAAACT 851
Db	770	CAGTGTCCTGGAGATGTGATGGTGAAAATGATTGTGACAGTGGAGAAGATGAAGAAAACT 829
Qy	852	GTGGCAATATAACATGTAGTCCCGACGAGTTCACCTGCTCCAGTGGCCGCTGCATCTCCA 911
Db	830	GTGGCAATATAACATGTAGTCCCGACGAGTTCACCTGCTCCAGTGGCCGCTGCATCTCCA 889
Qy	912	GGAACTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGATGAGCTGGACTGTG 971
Db	890	GGAACTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGATGAGCTGGACTGTG 949

1032 GCTGGGTATGCGACGATGATGCACACTCCCGACCAATCTGATGATCCCCTGGAGCAGT 1091 111111111111111111111111111111	Qy Db		CCCCGCCAACCTGTGGCGCCCATGAGTTCCAGTGCAGCACCTCCTCCTGCATCCCCATCA	
1010 1010 GCTGGGTATGCACGATGATGATGCACACTGCTCCGACCAATCTGATGATCCCTGGAGCAGT 1069 1092 GTGGCCGTCAGCCAGTCATACACACCAAGTGTCCCAGCCAAATCCAGGTCCCTGGAGCAGT 1151 11111111111111111111111111111				
1992 GTGGCCGTCAGCCAGTCATACACACCAAGTGTCCAGCCAG				
1070 1070				
1152 GCGAGTGCATCCATAAGAAGTGGCGATGTGATGGGGACCCTGACTGCAAGGATGCAGTG 1211				
1310 1310				
1212 ATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATGTGAGGATGGCA 1271				
	Db			
1272 GCTGCATCCATGCCAGCAGCAGTGTAATGGTATCCGAGACTGTTCGATGGTTCCGATG 1331	QУ			
1312 132 1332 1332 1332 13332 13332 13332 13332 13332 133332 133332 133332 133332 133332 1333332 13332 133322 13332 13332 133322 13332 13332 13332 133322 133322 133322 133322 133	Db	1190	ATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATGTGAGGATGGCA	1249
1332 AAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAAGTGCAGAAGTG 1391 111111111111111111111111111111	Qy	1272		1331
	Db	1250	${\tt GCTGCATCCATGGCAGCAGGCAGTGTAATGGTATCCGAGACTGTGTCGATGGTTCCGATG}$	1309
1310 AAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAAGTGCAGAAGTG 1369	Qy	1332		1391
Db	Db	1310		1369
1370 GAGAATGCATAGATATCAGCAAAGTATGTAACCAGGAGCAGGACTGCAGGAGTG 1429	Qy	1392		1451
Db	Db	1370		1429
Db 1430 ATGAGGCCCTGAAAGAGTGTCATATAAACGAATGCTTGGTAAATAATGGTGGATGTTCTC 1489 Qy 1512 ATATCTGCAAAGACCTAGTTATAGGCTACGAGTGGTGACTGCAGCTGGGTTTGAACTGA 1571 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Qy	1452		1511
Db	Db	1430		1489
Db 1490 ATATCTGCAAAGACCTAGTTATAGGCTACGAGTGTGCACTGTGCAGCTGGGTTTGAACTGA 1549 Qy 1572 TAGATAGGAAAACCTGTGGACATATTGATGATGCCAAAATCCAGGAATCTGCAGTCAAA 1631 Db 1550 TAGATAGGAAAACCTGTGGACATATTGATGAATGCCAAAATCCAGGAATCTGCAGTCAAA 1609 Qy 1632 TTTGTATCAACTTAAAAGGCGGTTACAAGTGTGAATGTAGTCGTGGCTATCAAATGGATC 1691 Db 1610 TTTGTATCAACTTAAATGGAGCGGTTACAAGTGTGAATGTAGTGTGGCGATACCAAATAGGATC 1669 Qy 1692 TTGCTACTGGCGTGTGCAAGGCAGTTAGGCAAAGAGCCAAGTCTGATCTTCACTAATCGAA 1751 Db 1670 TTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTTCACTAATCGAA 1729 Qy 1752 GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1811 Db 1730 GAGACATCAGGAACATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1789 Qy 1812 GAAACACTGTGGCCTCGAGCTGAGCATGAGCAAGAATATATCCAACTAGTTGAGCACCTAA 1811 HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Qу	1512		1571
Db	Db	1490		1549
DECEMBER 2013 DECEMBER 2014 DECEMBER 201	Qy	1572		1631
1692 TIGCTACTGCGTGTCCAAGCAGTAGCAAAGACCCAAGTCTGAATCTACATCGAA 1751	Db	1550		1609
Db 1610 TTTGTATCAACTTAAAAGGCGGTTACAAGTGTGAATGTAGTCGTGGCTATCAAATGGATC 1669 Qy 1692 TTGCTACTGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTTCACTAATCGAA 1751 Db 1670 TTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGACCCAAGTCTGATCTTCACTAATCGAA 1729 Qy 1752 GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1811 Db 1730 GAGACATCAGGAAGATGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1789 Qy 1812 GAAACACTGTGGCTTCGAATCTGACATCCTGCCCCAGAAATATATCCAACTATCTGGCCCGAGAATCTAA 1871	Qу	1632		1691
1752 1752	Db	1610		1669
Db 1670 TTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGACTTCACTAATCGAA 1729 Qy 1752 GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1811 Db 1730 GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1789 Qy 1812 GAAACACTGTGGCTCCGATGCTGACATCTGCTGCCCAGAAACTATTCTGGGCCGATCTAA 1871	Qy	1692		1751
Db 1730 GAGACATCAGGAAGATTGGCTTAGAGAGGAAATATATCCAACTAGTTGAACAGCTAA 1789 Qy 1812 GAAACACTGTGGCTCTCGATCACTGCTGCCCAGAAATATATCTATC	Db	1670		1729
Db 1730 GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAACTAGTTGAACAGCTAA 1789 Qy 1812 GAAACACTGTGGCTCTCGATGCTGACATTGCTGCCCAGAAACTATTCTGGGCCGATCTAA 1871	Qy	1752		1811
	Db	1730		1789
	Qy	1812		1871
	Db	1790		1849

Qу	1872	GCCAAAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAAATGA	1931
Db	1850	GCC-AAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAAATGA	1908
Qy	1932	TCGACAATGTCTATAATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACT	1991
Db	1909	${\tt TCGACAATGTCTATAATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACT}$	1968
QУ	1992	GGACTGATGCGGCTTCTAAGACTATTTCAGTAGCTACCCTAGATGGAACCAAGAGGAAGT	2051
Db	1969	${\tt GGACTGATGCGGCTTCTAAGACTATTTCAGTAGCTACCCTAGATGGAACCAAGAGGAAGT}$	2028
Qy	2052	TCCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCCACTGTCTGGCT	2111
Db	2029	${\tt TCCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCCACTGTCTGGCT}$	2088
Qy	2112	TTGTTTACTGGTCAGACTGGGGTGAACCAGCTAAAATAGAAAAAGCAGGAATGAAT	2171
Db	2089	$\tt TTGTTTACTGGTCAGACTGGGGTGAACCAGCTAAAATAGAAAAAGCAGGAATGAAT$	2148
QУ	2172	TCGATAGACGTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACACTTGACC	2231
Db	2149	${\tt TCGATAGACGTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACACTTGACC}$	2208
Qy	2232	TTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATCCAGCGTGGACT	2291
Db	2209	${\tt TTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATCCAGCGTGGACT}$	2268
Qy	2292	TGAATGGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGCTCATCCTCTTG	2351
Db	2269	${\tt TGAATGGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGCTCATCCTCTTG}$	2328
Qy	2352	CACTAACAATATTTGAGGATCGTGTCTACTGGATAGATGGGGAAAATGAAGCAGTCTATG	2411
Db	2329	CACTAACAATATTTGAGGATCGTGTCTACTGGATAGATGGGGAAAATGAAGCAGTCTATG	2388
Qy	2412	GTGCCAATAAATTCACTGGATCAGAGCTAGCCACTCTAGTCAACAACCTGAATGATGCCC	2471
Db	2389	$\tt GTGCCAATAAATTCACTGGATCAGAGCTAGCCACTCTAGTCAACAACCTGAATGATGCCC$	2448
Qy	2472	AAGACATCATTGTCTATCATGAACTTGTACAGCCATCAGGTAAAAATTGGTGTAAAAAAG	2531
Db	2449	${\tt AAGACATCATTGTCTATCATGAACTTGTACAGCCATCAGGTAAAAATTGGTGTGAAGAAG}$	2508
Qy	2532	ACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCACAGATTAATGATCACT	2591
Db	2509	ACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCACAGATTAATGATCACT	2568
Qy	2592	CTCCAAAATATACCTGTTCCTGTCCCAGTGGGTACAATGTAGAGGAAAATGGCCGAGACT	2651
Db	2569	$\tt CTCCAAAATATACCTGTTCCTGTCCCAGTGGGTACAATGTAGAGGAAAATGGCCGAGACT$	2628
Qy	2652	GTCAAA	2657
Db	2629	GTCAAAGTACTGCAACTACTGTGACTTACAGTGAGACAAAAGATACGAACACAACAGAAA	2688
Qy	2658	GGATCAATGTGACCACAGCAGTATCAGAGG	2687
Db	2689	${\tt TTTCAGCAACTAGTGGACTAGTTCCTGGAGGGATCAATGTGACCACAGCAGTATCAGAGG}$	2748
Qу	2688	${\tt TCAGTGTTCCCCCAAAAGGGACTTCTGCCGCATGGGCCATTCTTCCTCTTTGCTCTTAGCTCTAGCTCTAGCTCTAGCTAG$	2747

DI	0	2749		2808
Q:	Y	2748	${\tt TGATGGCAGCAGTAGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAA}$	2807
DI	0	2809	TGATGGCAGCAGTAGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAA	2868
Q:	Y	2808	${\tt GCATGAACTTTGACAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACA}$	2867
DI	٥	2869	GCATGAACTTTGACAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACA	2928
Q:	Y	2868	$\tt TTGGTAGACACAGTGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAG$	2927
DI	0	2929	TTGGTAGACACAGTGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAG	2988
Q:	Y	2928	${\tt ATGATGATCTAGCTTGACCTTCTGTGACAAATGTTGACCTTTGAGGTCTAAACAAATAATA}$	2987
DI	0	2989		3048
Q:	Y	2988	$\tt CCCCGTCGGAATGGTAACCGAGCCAGCAGCTGAAGTCTCTTTTTCTTCCTCTCGGCTGG$	3047
DI	0	3049	CCCCGTCGGAATGGTAACCGAGCCAGCAGCTGAAGTCTCTTTTCTTCCTCTCGGCTGG	3108
Q:	Y	3048	${\tt AAGAACATCAAGATACCTTTGCGTGGATCAAGCTTGTGTACTTGACCGTTTTTATATTAC}$	3107
DI	0	3109	AAGAACATCAAGATACCTTTGCGTGGATCAAGCTTGTGTACTTGACCGTTTTTATATTAC	3168
Q:	Y	3108	$\tt TTTTGTAAATATTCTTGTCCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTG$	3167
DI	٥	3169	TTTTGTAAATATTCTTGTCCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTG	3228
Q:	Y	3168	${\tt TAACCCTTGAATTTCTAGACAGTATTGCCACCTCTGGCCAAATTATGCACTTTCCCTAGAA}$	3227
DI	0	3229	TAACCCTTGAATTTCTAGACAGTATTGCCACCTCTGGCCAAATATGCACTTTCCCTAGAA	3288
Q:	Y	3228	${\tt AGCCATATTCCAGCAGTGAAACTTGTGCTATAGTGTATACCACCTGTACATACA$	3287
DI	0	3289	AGCCATATTCCAGCAGTGAAACTTGTGCTATAGTGTATACCACCTGTACATACA	3348
Q:	Y	3288	${\tt AGGCCATCTGTAAATATCCCGGACAAAACGGGTTACTAAGATGAAAATTGCCAAAAAAAA$	3347
DI	٥	3349	AGGCCATCTGTAAATATCCCAGAGAACAATCACTATTCTTAAGCACTTTGAAAATATTTC	3408
Q:	Y	3348	TAT 3350	
DI	0	3409	TAT 3411	

<!--EndFragment-->